

What is claimed is:

1. An air velocity control unit comprising:  
a frame;  
5 first bars affixed within the frame;  
second bars disposed below the first bars and arranged alternatively between the first bars, the second bars being connected with each other;  
a control member for moving the second bars upwardly and downwardly to control air velocity flowing between the first and second bars into a clean room; and  
10 a connecting member for connecting the second bars to the control member.

2. The air velocity control unit of claim 1, wherein either one or both of the first and second bars have a cross-sectional shape selected from the group consisting of a lozenge, a triangle, an ellipse and a circle.

15 3. The air velocity control unit of claim 1, wherein the control member comprises a handle for controlling upward and downward movement of the second bars and a gear for transmitting electric power to the handle.

20 4. The air velocity control unit of claim 1, wherein the control member has a shape selected from the group consisting of aluminum, steel and plastic.

25 5. The air velocity control unit of claim 1, further comprising a window formed on a side of the frame for inspecting upward and downward movement of the second bars and for displaying adjusted value of the air velocity flow .

30 6. The air velocity control unit of claim 1, which controls the air velocity in a clean room, said unit further comprising a manometer for measuring pressure differences between an internal area and an external area of the clean room.

7. An air velocity control unit comprising:  
a plurality of first bars disposed in a fixed position;  
second bars disposed above the first bars and arranged alternatively between the first bars, the second bars being connected with each other;

a control member for moving the second bars upwardly and downwardly to a plurality of positions with respect to said first bars for controlling air velocity flowing between the first and second bars into a clean room; and

a connecting member for connecting the second bars to the control member.

5

8. The air velocity control unit of claim 7, wherein either one of the first and second bars have a cross-sectional shape selected from the group consisting of a lozenge, a triangle, an ellipse and a circle.

10 9. The air velocity control unit of claim 7, wherein the control member comprises a handle for controlling upward and downward movement of the second bars.

10. The air velocity control unit of claim 7, further comprising a window formed on a side of the frame for inspecting upward and downward movement of the second bars.

15

11. The air velocity control unit of claim 7, which controls the air velocity in a clean room, said unit further comprising a manometer for measuring pressure differences between an internal area and an external area of the clean room.

20

12. An air conditioning system comprising:

an air filter for filtering air flowing into a clean room; and

an air velocity control unit installed on the air filter for controlling a velocity of air released from the air filter,

wherein the air velocity control unit comprises a) a frame, b) first bars affixed within said frame, c) second bars disposed below the first bars and arranged alternatively between the first bars, the second bars being connected with each other, d) a control member for moving the second bars upwardly and downwardly to control air velocity flowing between the first and second bars into the clean room, and e) a connecting member for connecting the second bars to the control member.

25 30

13. The air conditioning system of claim 12, wherein the air filter comprises a low efficiency particulate air filter, an intermediate efficiency particulate air filter or a high efficiency particulate air filter.

14. The air conditioning system of claim 12, wherein either one or both of the first and second bars have a cross-sectional shape selected from the group consisting of a lozenge, a triangle, an ellipse and a circle.

5 15. The air conditioning system of claim 12, wherein the control member comprises a handle for controlling upward and downward movement of the second bars and a gear for transmitting electric power to the handle.

10 16. The air velocity control unit of claim 12, wherein the control member has a shape selected from the group consisting of aluminum, steel and plastic.

17. The air conditioning system of claim 12, further comprising a window formed on a side of the frame for inspecting upward and downward movement of the second bars and for displaying adjusted value of the air velocity flow.

15 18. The air conditioning system of claim 12, which controls the air velocity in a clean room, said unit further comprising a manometer for measuring pressure differences between an internal area and an external area of the clean room.

20 19. An air conditioning system comprising:  
an air filter for filtering an air flowing into a clean room; and  
an air velocity control unit installed on the air filter for controlling a velocity of an air released from the air filter,

25 wherein the air velocity control unit comprises a) a frame, b) first bars affixed within said frame, c) second bars disposed above the first bars and arranged alternatively between the first bars, the second bars being connected with each other, d) a control member for moving the second bars upwardly and downwardly to control the air velocity of flowing through between the first and second bars into a clean room, and e) a connecting member for connecting the second bars to the control member.

30 20. The air conditioning system of claim 19, wherein the air filter comprises a low efficiency particulate air filter, an intermediate efficiency particulate air filter or a high efficiency particulate air filter.

21. The air conditioning system of claim 19, wherein either one or both of he first and second bars have a cross-sectional shape selected from the group consisting of a lozenge, a triangle, an ellipse and a circle.

5 22. The air conditioning system of claim 19, wherein the control member comprises a handle for controlling upward and downward movement of the second bars.